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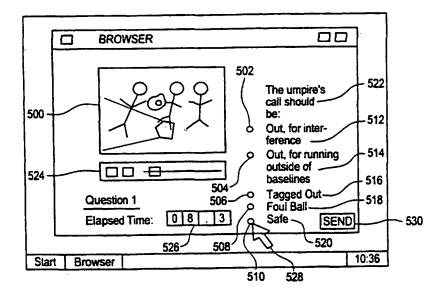
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(54) Title: METHOD FOR MULTIPLAYER SPORTS TRIVIA GAME



(57) Abstract: A method for using a widely distributed network with appreciable time delays for playing a sports trivia game in which participants compete on the basis of both correctness of answers and speed of response. When a sports trivia game is played, the clip (500) starts and a question (522) is presented. Each participant answers the question in a respective answer times. The participant's answers and the respective answer times are communicated to a server that analyzes the answers and time based upon selected criteria of correctness and speed of response. Results of the analysis are transmitted back to the participants over the network.



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METHOD FOR MULTIPLAYER SPORTS TRIVIA GAME

Background of the Invention

This invention relates to methods for implementing and playing a computer-based game, and more specifically to a method for using a widely distributed computer network, such as the Internet, for playing a multiplayer sports trivia game in which both speed of response and correctness of answers are used as bases for competition.

Many people enjoy the competition of trivia games.

Many board games, such as the well-known "Trivial

Pursuit," have been successfully marketed to take

advantage of this fact. Even before "Trivial Pursuit,"

many popular radio and TV game shows were developed in

which knowledge of various types of trivia was rewarded.

In some of these shows, the ability to answer questions

before other competitors was necessary to win. In one

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early TV show, contestants literally ran across the stage to be the first to ring a bell, for which they were rewarded by being given the opportunity to answer a question. In other shows, electronic devices were used to "lock out" all but the first contestant who signified his willingness to answer a question.

In "Jeopardy," perhaps the best-known of TV trivia game shows, contestants are in the same room. When contestants press a button to signify their readiness to provide a question appropriate for an answer supplied by the game show host (a gimmick that distinguishes "Jeopardy" from other game shows), the electronic response is clearly immediate. The first contestant pressing a button at his or her podium to signal a readiness to respond immediately produces an audio and visual signal alerting the host to call on that contestant for a response. The other contestants appear to be "locked out," in that they appear to be unable to produce the readiness signal by pushing their buttons until after either the first contestant has given an incorrect response or a new response is solicited from all contestants.

example, in a series of former television commercials entitled "You Make The Call," a replay of a portion of a professional football game was shown, and the viewer was asked what he or she would have decided if required to make a decision as a referee in the situation presented. Because these commercials were broadcast for viewing entertainment only, answers were not provided back to the broadcaster and viewers or listeners in different locations did not compete with one another to be the first to provide the right answer.

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Variations of the "You Make The Call" program have been observed at live sporting events. At baseball games in St. Louis, for example, a large video display board and public address system is occasionally used to present a (possibly animated) video clip of a baseball play. The game is played with a contestant selected from the crowd. After the question is posed, the contestant is shown several possible answers on the video display board, and is asked to select an answer. A prize may be awarded to the contestant, depending upon the correctness of the answer he or she supplies. There is no competition between multiple contestants in this game and no time limit is provided for selecting an answer.

Certain "real-time" games that require or take useful advantage of an Internet connection are also 15 known. These games are based upon subject matter disclosed in U.S. Patent No. 5,841,980 to Waters et al., entitled "Distributed system for communication networks in multi-user applications," which is herein incorporated by reference in its entirety. The Waters et al. patent 20 is directed to a system for overcoming bandwidth limitations of network backbones to allow for national participation in multi-user applications across a largescale network. RTIME Inc. is a company that produces the RTIME INTERACTIVE NETWORKING ENGINETM, an interactive 25 networking engine based upon this patent that allows game developers and publishers to rapidly build or port multiplayer games to run over the Internet. Examples of fast-action, multiplayer games implemented in this manner are BATTLECRUISER 3020ADTM, "RTIME Rocks!", "Turok 2: 30 Seeds of Evil For The PC," "SpecOps: Rangers Lead the Way, " and "PARAWORLD." Each of these games generate fanciful worlds in which players engage in combat, trade,

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and/or exploration. However, none of these games are known to show clips from actual or simulated sporting events or to pose questions related to such events.

from the SIMNET project for the United States Government.

This project involved combat training simulation and was used to train U.S. troops through interactive battle simulations. Thus, it is not surprising that games currently known to use this type of networking technology are interactive battle simulation games.

There is no known game played on a distributed network having appreciable differential time delays in which an audiovisual clip and at least one question pertaining to the audiovisual clip having a verifiable answer are distributed to participants via the distributed network, the presentations of the video clip and the at least one question to each of the participants are synchronized, responses of the participants received via the distributed network are analyzed with respect to both speed and correctness criteria, and results of the analysis are distributed to the participants.

BRIEF DESCRIPTION OF THE INVENTION

There is therefore provided, in accordance with one aspect of the invention, a method of using a distributed network that provides electronic data communication to a plurality of remote terminals, the method comprising: transmitting an audiovisual clip and a question related to the clip to each of a plurality of terminals; coordinating a time of playing back of the audiovisual clip at the plurality of terminals; receiving, from at least some of the plurality of terminals, a response to the question and data indicative of time elapsed prior to the response being entered; analyzing the responses and

the data received in accordance with predetermined correctness and speed criteria; and transmitting, to at least some (but preferably all) of the plurality of terminals, results of the analysis. The audiovisual clip may comprise either audio or video information, or both, to be played back at each terminal operated by a participant. It is understood that a "terminal" as used herein, may refer to any device, including wireless devices, useful for communication over the computer network and capable of performing the needed interactions with the network and a participant. Such devices may include personal computers, for example. Further in accordance with this aspect of the invention, the audiovisual clip may be a recording of a play that occurred in a sporting event, and the coordination step may comprise coordinating a display of the question and a multiple choice list of possible answers. Local control of playback of the audiovisual clip may be disabled until after the audiovisual clip has completely played back at a coordinated time. One or more host participants may set different starting times for different sessions, and individual participants may select a session to join.

In accordance with another aspect of the invention, there is provided a method of using a distributed network, the network providing electronic data communication with variable time delays to remote terminals, the method comprising: providing a web site accessible to the remote terminals; logging in a first one of the remote terminals to the web site to initiate a playing session; setting a global start time for the 30 playing session; logging into the playing session at least one other of the remote terminals; transmitting synchronizing pulses to each logged-in terminal;

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transmitting a question pertaining to the audiovisual clip to each of the logged-in terminals; receiving answers transmitted to the web site from the logged-in terminals; and transmitting, to the logged-in terminals, an indication of those terminals at which a correct answer was most rapidly provided.

In accordance with yet another aspect of the invention, there is provided a method of using a distributed network, the network providing electronic data communication with variable time delays to remote terminals, the method comprising: providing a web site accessible via the distributed network to the remote terminals; selecting a group of remote terminals for a playing session; transmitting via the distributed network, from the web site to each of the terminals selected for the playing session, an audiovisual clip, a question relating to the audiovisual clip, and a synchronizing signal so that the audiovisual clip and the question are each displayed at each of the terminals selected for the playing session at synchronized times; 20 receiving, from at least one of the remote terminals selected for the playing session, answers to the question relating to the audiovisual clip and, in conjunction therewith, indications of elapsed time, relative to the synchronized time, at which answers were entered into the 25 remote terminals; analyzing the received answers and their associated indications of elapsed time in accordance with correctness and timeliness criteria; and transmitting an indication of the correctness and timeliness of selected ones of the received answers to 30 the terminals selected for the playing session.

In accordance with yet another aspect of the invention, there is provided a method of using a

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distributed network, the network providing data communication with variable time delays to remote terminals, the method comprising: establishing a consistent synchronized time base at a plurality of remote terminals, the plurality of remote terminals 5 thereby constituting a session; distributing, via the distributed network to the remote terminals in the session, an audiovisual clip and a question related to the audiovisual clip that is displayed on the terminals in the session in accordance with the synchronized time 10 base; receiving, via the distributed network from the terminals in the session, a set of responses to the question and corresponding indications of elapsed time for response entry relative to the synchronized time base; analyzing a set of responses and corresponding 15 indications of elapsed time in accordance with preselected criteria including timeliness criteria; and distributing, via the distributed network, results of the analyzing step. Further in accordance with this aspect of the invention, the audiovisual clip may be a video 20 recording of a refereed sporting event, and the clip may be a recording of a play up to, but not including, a call of a referee. The question preferably relates to the call of the referee, so that participants may compete with each other to guess the correct call in the shortest 25 possible time. Because the call may be checked by reference to the rules of the sport, the answers are independently verifiable. Preferably, an answer and a corresponding indication of elapsed time are received from each of a plurality of terminals in the session, and 30 the analyzing step comprises ranking of correct answers in order of elapsed time.

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In yet another aspect of the invention, there is provided a method of playing a computer game, comprising: asking a plurality of players a question; receiving answers to the question from the plurality of players; and scoring the players in accordance with criteria relating to both speed and correctness of the answers. The method preferably includes the additional step of presenting an audiovisual clip representing a play of a sporting event to the plurality of players, and the question preferably relates to the play represented in the clip. In accordance with this aspect of the invention, the game need not be played on a computer network.

It is thus an object of the invention to provide a method for using a distributed network in a manner that allows a game or other competitive activity to take place with fair and consistent timing of correct answers provided by the participants.

It is another object of the invention to provide a method for using a distributed network in the playing of a sports trivia game.

It is yet another object of the invention to provide a method for using a distributed network in which a plurality of participants may compete at a time selected by a host participant.

It is still another object of the invention to provide a method for using a distributed network that coordinates a timed game, preferably a sports trivia game, to be synchronized with a broadcast announcement or advertisement.

. It is yet an additional object of the invention to provide a method of playing a game on a wide area computer network with appreciable delays that permits

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scoring of both the relative speed and accuracy of answers to questions presented via the network.

It is yet another object of the invention to provide a sports trivia game that need not be played over a large computer network, and that is suitable to playing on a single computer or video game, or on a relatively small computer network.

It is yet another object of the invention to provide a game for a plurality of players that is scored on the basis of both the speed and the correctness of the answers given.

It will be observed that certain embodiments of the invention may achieve one or more of the above objects or other objects that will become apparent below without necessarily achieving all of them. Such embodiments are also to be considered within the scope of the invention insofar as they are claimed herein.

The manner in which these and other objects of the invention are achieved will become apparent to one skilled in the art upon studying the drawings and the accompanying description of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

- Fig. 1 is a simplified schematic representation of a large, distributed computer network on which the game may be played in accordance with the invention;
- Fig. 2 is a simplified schematic representation of a portion of the large computer network of Fig. 1, showing a group of terminals connected to a network node;
- Fig. 3 is a representation of a computer screen

 30 displaying an exemplary embodiment of an opening screen
 of the game;
 - Fig. 4 is a representation of a computer screen displaying an exemplary web page transmitted to

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participants of a session at the start of a game in accordance with the invention;

Fig. 5 is a representation of a computer screen displaying an exemplary web page transmitted to participants prior to the global start time of a game in accordance with the invention;

Fig. 6 is a representation of a computer screen displaying an exemplary web page transmitted to participants during a game showing an audiovisual clip being displayed along with a question concerning the clip;

Fig. 7 is a representation of a computer screen displaying an exemplary web page transmitted to a particular participant after an answer to the question in Fig. 6 is transmitted by that participant to the game's web server in accordance with the invention; and

Fig. 8 is a representation of a computer screen displaying an exemplary web page transmitted to the particular participant at the end of a game in accordance with the invention.

DETAILED DESCRIPTION OF THE INVENTION

Fig. 1 is a simplified schematic illustration of a large distributed computer network 100 on which an embodiment of the inventive game may be played. Network 100 is preferably the Internet, although the invention may also utilize any other network having a synchronized time base or capable of locally providing a simulated synchronized time base. (It is also possible to implement the game on a single computer or on a local network or any other network in which communication delays are insignificant. In such cases, no synchronized time base is required.) The simplified Internet network topology represented in Fig. 1 is not intended to

represent a critical feature of the embodiment of the invention described herein. A number of computers 102, 104, 106, 108, 110, 112, and 114 are connected and in electronic communication with one another over network 100. Other computers, terminals, and even other networks 5 may be connected to the computers represented in Fig. 1, as illustrated in Fig. 2. In Fig. 2, computer 110, which is in communication with network 100, is shown to also be in communication with devices 110-1, 110-2, ... 110-N, where N is an arbitrary number. These devices could be 10 terminals, computers, or computer networks. discussion purposes, let us assume that devices 110-1, 110-2, etc., and the devices attached to computer 110 (and other devices similarly attached to the other numbered computers 102, 104, etc.) for purposes of playing the inventive game are personal computers (PCs) or any other devices capable of providing a web browser function. At least one of the devices attached to the numbered computers 102, 104, etc. will be a web server to provide web pages to the PCs. In general, if network 100 20 is the Internet, only a small part of the communication taking place over the network will involve the inventive game, and only a limited number of devices communicating on the Internet will be computers actively involved with the game, either as servers or clients. Let us assume, 25 however, for discussion purposes that each computer designated by "-1" (e.g., 100-1) represents a server for the inventive game and each other computer designated by -2, ... -N (e.g., 100-2) represents a personal computer with a browser that is or that may become involved in 30 playing the inventive game. (Games for smaller networks or single computers will be considered separately below.) Let us consider a game in accordance with the invention that provides ten audiovisual clips, each clip having one associated question and five multiple choice selections from which to choose an answer. It is not required, however, that each clip be associated with only one question, that each question have the same number of multiple choice selections from which to choose an answer, or that any or all of the questions be presented in multiple choice format. Of course, the number of clips presented in a single game need not be ten, as any number of clips may be used in a game.

The audiovisual clips may be stored in any file format that permits downloading and display by a web browser, such as INTERNET EXPLORER or NETSCAPE NAVIGATOR.

Other browsers or programs having equivalent functionality may be used, but optimization for presentation on either or both of these browsers may be desirable at present to obtain the widest possible pool of potential participants.

The first participant accesses one or more introductory web pages on a game server. An exemplary 20 web start page 200 is shown in Fig. 3 as it might be displayed on the screen of a typical home computer. This illustration is somewhat simplified, as the display may vary somewhat, depending upon the operating system and web browsing software in use. Web page 200 preferably 25 registers the participant so that he or she may be scored and ranked against the other participants. Optionally, before allowing participants to play the game, the registration process may require the participants to enter demographic or personal information about 30 themselves either on the opening page 200 or on a subsequent page (not shown). The web site may also

provide advertising displays 210, 212 containing advertising content and/or providing links to other web sites, as is known in the art. Similar advertising displays may optionally appear on any of the web pages of the game, and may optionally be integrated into the audiovisual clips and their associated questions and answers. However, no further reference to such displays will be made in this explanation.

A participant may be allowed to select a game session that has already been started or start a new 10 session. Game sessions may be started either by the web server itself or by a "host" participant, or by both, in accordance with the invention. In an exemplary embodiment of the invention, the web server communicating with the participant's client computer maintains a database of session names that may be joined and provides these names as a selection list 202 to participants. Typically, a participant may select a name from the list 202 with a mouse cursor 204 and confirm the selection by moving the cursor to the "OK" button 206 and clicking on 20 this button. As an alternative, a participant might choose to start his or her own session by clicking on button 208. If a potential participant does not understand the rules of the game, or what is requested of him or her, a help button or link 214 is preferably 25 provided to display a page of instructions (not shown). Help may be provided in a pop-up window or it may simply display in the same window as the opening screen. latter case, it would be desirable to provide a link back to the web page displayed from which the participant 30 transmitted the help request.

It should be observed that additional information could be requested of a participant for identification,

demographic collection, or other commercial purposes. Such additional information could be collected on the starting web page 200 or on a subsequent web page (not shown). Optionally, supplying such additional information may be made a prerequisite for allowing a participant to play the game. Also optionally, the name 5 or other identification of the participant may be added to a database. Game participants may be uniquely identified in other ways by a web server, such as by their Internet IP addresses. However, participants may prefer being identified by a more user-friendly way, such 10 as by name of their own choosing, even if the name selected does not happen to be their first choice. database of names and session collected by the web server would allow it to transmit a request for a second choice if a participant's submitted identification were not 15 unique, at least within the game session that he or she has joined.

A necessary feature of the game is that a global start time be selected. When a host participant selects the "start a new session" option 208 of Fig. 3 in this 20 exemplary embodiment, the web server transmits to that participant the web page 300 shown in Fig. 4. The global start time is preferably set by a host participant. the exemplary embodiment, the host participant selects a session name (which should be verified by the web server as not already in use as the name of another active or pending game session) and enters it into entry window 302 of web page 300. The host participant also sets a global start time, which is then used to synchronize all of the 30 participants' audiovisual playback, question presentation, and answer timing for the game. exemplary embodiment, the global start time may be

entered as a time relative to the present in entry window 304, or a specific clock time at entry windows 306 and 308. An indication of AM or PM is preferably set by selection of one of the mutually exclusive selections 310, 312. If the host participant is satisfied with the entries in web page 300, he or she may transmit them by clicking on the "OK" button 314. The participant is also preferably given a chance to reconsider joining an already established session by clicking on the "go back" button 316, which may simply return the participant to 10 web page 200. If the host participant does select the OK button 314, the reasonableness of the start time may be verified by the web server. For example, the web server could optionally be programmed to reject start times more than some predetermined interval in the future, such as 15 24 hours. In such a case, the host participant could be prompted to enter a more reasonable start time. start time should also be required to be set sufficiently in advance so that the network synchronizing system is 20 able to accommodate all expected network delays. required minimum delay may be different for different (For the Internet, it has empirically been determined that two minutes in advance is usually sufficient, although it may be necessary to determine this value empirically as the evolution and growth of the Internet continues.) In the exemplary embodiment, no other participant logging into the game session is be permitted to change the start time, which becomes the basis of the start time for all participants. However, the web server might be configured to relax this rule 30 under certain conditions or at the discretion of the game's sponsor.

Session start times may alternately be preprogrammed at the web server. The web server may provide for global start times of games at hourly or half-hourly intervals, for example, or at other times. A global start time could be coordinated with the appearance of a commercial on television or radio, so that the commercial may be used to entice viewers or listeners to log into a game. Such coordination may be useful for promotion of a broadcast event, such as a sporting event or to reinforce the advertising message of a sponsor of that event.

Synchronization of start times may be provided by a system such as that described in the Waters et al., patent mentioned supra. This software, which is provided by RTIME, Inc. of Seattle, WA, may be used to synchronize the starting of videos across all web browsers and across 15 various Internet connections. Although there can be unusual conditions on the Internet that may, from time to time, cause discrepancies in the synchronized timebase, global time is normally coordinated sufficiently accurately by this software for purposes of this 20 invention. Generally speaking, the system of Waters et al. requires the use of multiple web servers that service clients that are nearby (in the networking sense), with communication occurring only as required between the multiple web servers. However, the system is arranged so 25 that, from the point of view of each participant, only a single web server appears to be involved. The use of the singular term "web server" in this explanation is, in part, due to the adoption of this point of view for much of the description of this embodiment of the invention. 30 In other embodiments of the invention played on a local network, on a single computer, or on any other computing system or network in which network communication delays

are negligible, synchronization software would not be required.

Participants may be added to a game up to a number and until a time set at the discretion of the game's sponsor (or optionally, by the participants, particularly the host participant) and enforced by the web server. Referring to Fig. 5, a countdown display 400 is preferably provided to participants before the start of the game. This countdown timer may show the amount of time before the next game clip appears. During this time, the web server may provide additional web pages 402 or audiovisual material to be displayed on participants' web browsers. Such material may be selected to maintain the interest of the participants, or to present advertising material, or both.

Meanwhile, as illustrated in Fig. 6 the web server (or a coordinated group of web servers each servicing a number of participants) sends an audiovisual clip 500 (which may include moving video, sound, or both) to each participants' web browser. The software controls the timing of the clip so that all of the browsers display the clip at the coordinated start time. The clip will be resident on the remote clients' disks, and may be in the well-known "AVI" format, so that they are playable in a standard commercial browser interface, such as the MediaPlayer™ or NetShow® interfaces. Preferably, selection "buttons" 502, 504, 506, 508, 510 corresponding to each of the possible answers 512, 514, 516, 518, 520 to a question 522 about clip 500 will be displayed next to the audiovisual clip window. Also, preferably, replay (i.e., restarting on demand) of the clip (such as provided by controls 524) will be disabled until the final frame has been displayed to each of the participants (and,

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optionally, thereafter). This will allow playback to be synchronized to ensure that each participant receives identical information at the same rate during the coordinated presentation period. During the display of the clip, an elapsed time display 526 is preferably also displayed on each participant's web browser display. The elapsed time is derived from synchronization pulses provided by the synchronization software. To ensure that all clients start their video at precisely the same time, within some margin of error (e.g., about 200 milliseconds), an ActiveX® control or functional equipment may be integrated into the global time base.

Preferably only after an audiovisual clip 500 is displayed, or optionally, during the clip, a question 502 is displayed and each participant is given the 15 opportunity to select and transmit an answer to the question. For simplicity, a selection of multiple choice answers 512, 514, 516, 518, 520 are preferably provided, but any other form of answer that can be transmitted by the participants' web browsers may also be used in 20 conjunction with the invention. Preferably, the correct answer would be verifiable by reference to the clip and to the official rules for the sport to which the question The elapsed time counter 526, in conjunction with the synchronization pulses, provides an indication 25 of the time that has elapsed from some global reference, such as the beginning of the playback of clip 500, or the instant question 522 was displayed. This indication is transmitted back to the web site along with the selected answer to the question. The elapsed time transmitted to 30 the web server may indicate either the time elapsed from the global reference time until the participant selected the answer, or the time the participant confirmed the

choice. The latter would be appropriate if, for example, separate confirmation (such as by clicking cursor 528 on button 530) is required to indicate that the selected answer is the one that the participant wishes to transmit back to the web server. It is necessary that the elapsed time be measured consistently so that the game can be scored fairly. A browser applet may be provided to each client to impose a time limit for providing a correct answer. If the time limit is exceeded, that participant may be considered as not having supplied a correct 10 Participants may optionally be given more than answer. one chance to select a correct answer, in which case, they must be notified when they have selected an incorrect answer. Server synchronization pulses may be sent to each participant's terminal before and during the 15 game to ensure that local times are consistent at initialization, and remain consistent up to and during the game.

analysis, the server analyzes the answers for correctness and the elapsed times that are provided with the answers. After this analysis is complete, the server then transmits to each participant a web page 600, such as illustrated in Fig. 7, that contains the answer 602 to question 522 and information 604, 606, 608, 610, 612, 614 pertaining to participants whose answers meet certain criteria relating to correctness and speed of response. For example, the following compilation may appear in order:

1. The correct answer 602, which may also include editorial comment 616 that expands or explains the answer;

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- 2. One or more participants 604 who submitted the fastest first correct choice answers, i.e., the participant or participants who chose the correct answer on the first attempt, along with a rating 610, in accordance with some predetermined criteria including correctness and speed, to compare their score to that of other participants;
- 3. One or more participants 606 who submitted the fastest second correct choice answers, i.e., the participant or participants who chose the correct answer on the second attempt, along with a rating 612; and
- 4. One or more participants 608 who submitted the fastest third correct choice answers, i.e., the participant or participants who chose the correct answer on the third attempt, along with a rating 614.

Variations are possible to this format. By way of example, only the first correct choices may be rated, or only the "best" scores of other participants may be provided to everyone along with their own scores, or only rankings may be shown or provided. The identities of the other participants may or may not be provided. The web page may also provide information 618 relating to the speed and correctness of the answer submitted by the participant on his own web browser, and a countdown 620 to the next clip.

Preferably, more than one question would be presented in any game session. For example, ten clips each with one question each may be provided per session to all contestants. Browser software of a downloaded applet may be used to limit the amount of time provided to answer each question (for example, to 10 seconds after the end of each clip), after which the web site server downloads another clip and another question.

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Alternately, all of the clips might be downloaded at once to save time, and presented one after the other, each after the expiration of the previous time limit. A collection of clips may be provided, so that the likelihood that different sessions, either successive or concurrent, use the same set of questions is reduced. A final score may be provided as shown in the web page 700 illustrated in Fig. 8.

Participants may play the game purely for fun, or 10 the sponsor may provide prizes for the highest scores. Such presentations would also be useful for promotional purposes, and, as mentioned above, could be coordinated with other advertising. The game may also be presented to participants for educational or training purposes. Depending upon the server used, it may be possible to 15 provide numerous independent sessions in which different groups of participants compete. Preferably, an entire library of audiovisual clips could be stored on the server, a (preferably randomized) selection of which 20 would be presented in each session, to make it difficult to memorize a series of correct answers.

The software and hardware needed for this system may be satisfied at the client (participant) side by typical IBM-compatible personal computers (client PCs), but other computers may also be suitable if compatible software is used. Each client PC may preferably be configured with the Windows95® or Windows98® operating system and the necessary networking software to allow it to run on a TCP/IP based network, such as the Internet. Intel PENTIUM®-based client PCs having a CPU speed of at least 166 MHz are recommended, along with a minimum of 32MB of RAM and a 28.8KB modem. These requirements could be modified, depending upon the audiovisual clip lengths,

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resolutions, and download times that are desirable or that can be tolerated. Each client PC must be able to establish a connection to a web page hosted at a synchronization-enabled web site, such as one utilizing the RTIME software described above. An SGI (Silicon Graphics, Inc.) O200 workstation is representative of the desired processing power for the web server.

Once the inventive game is understood, it will be recognized by those of skill in the art that many variations within the scope and spirit of the invention 10 are possible. For example, the audiovisual clips (i.e., clips comprising audio and/or video content) may be either live recordings from amateur or professional sports events, or cartoon or computer-generated simulations of plays in real or simulated sport events. 15 The sports trivia game may also be played on a local network of computers with one server (without excluding the possibility of configuration having more than one server) and multiple clients. Even a single computer or video game device may be configured to play the game, if 20 each player is provided with a data entry device such as a joystick or button pad. (A single keyboard could be used for a limited number of players by assigning portions of the keyboard to individual players.) In these configurations, no synchronizing software is 25 Instead, the web server transmits the required. audiovisual clips (e.g., recordings of plays from live sporting events, or animations of similar subject matter) to participating computers on the local network at the same time or nearly the same time, possibly using a 30 broadcast-like protocol, or the video game or stand-alone computer simply displays the clip on a single screen or a plurality of display screens. The game then proceeds win

the manner described above, with players entering answers either via their local client computer or via the input device attached to the video game or the single computing system.

In still another variation of the present invention, the questions and/or audiovisual clips may be provided to the game players through a medium other than the computer network, such as through a television broadcast, and the players can then submit their answers via the computer network or any other suitable means.

Because of the variations that are possible within the spirit of the invention, the scope of the invention should be determined by reference to the claims below and their full range of equivalents, in accordance with applicable laws.



WHAT IS CLAIMED IS:

1. A method of using a distributed network that provides electronic data communication to a plurality of remote terminals, the method comprising:

transmitting an audiovisual clip and a question related to audiovisual clip to each of a plurality of terminals;

coordinating a time of playing of the audiovisual clip at the plurality of terminals;

receiving, from at least some of the plurality of terminals, a response to the question and data indicative of time elapsed prior to the response being entered;

analyzing the responses and data in accordance with predetermined correctness and speed criteria; and

transmitting, to at least some of the plurality of terminals, results of the analysis.

- 2. The method of claim 1, wherein the step of transmitting the audiovisual clip comprises transmitting an audiovisual clip recording of a play that occurred in a sporting event.
- 3. The method of claim 2, wherein the step of coordinating playing the audiovisual clip comprises coordinating a display of the question and a multiple choice list of possible answers.
- 4. The method of claim 2, wherein the step of coordinating playing the audiovisual clip comprises, at each terminal, disabling controls providing for redisplay of the audiovisual clip until playback of the audiovisual clip has completed.

- 5. The method of claim 2, and further comprising a step of logging in participants at the terminals with an identification of their own choosing.
- 6. The method of claim 5, wherein one of the participants is a host participant, further comprising a step of receiving coordination time data from the host participant's terminal, and wherein the step of playing the audiovisual clip at a coordinate time comprises coordinating a playback time at each of the plurality of terminals in accordance with the received coordination time data.
- 7. The method of claim 6, wherein there are a plurality of host participants, and wherein:

the step of receiving coordination time data comprises a step of receiving coordination time data and session identification data from each of the plurality of host participants; and

the step of logging in participants includes logging a participant into a session identified by a host participant;

- and wherein the analyzing and result transmitting steps are performed independently for each session.
 - 8. The method of claim 1 wherein the step of coordinating a time comprises coordinating the time in accordance with a preselected time.
 - 9. The method of claim 1 wherein the step of coordinating a time comprises coordinating the time in

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accordance with a message transmitted via a broadcast medium:

- 10. The method of claim 1 repeated a plurality of times, wherein a predetermined delay time is interposed between successive repetitions and wherein the audiovisual clip and question in each repetition is different, and further comprising steps of analyzing an aggregation of results of the repetitions in accordance with correctness and speed criteria, and transmitting, to each of the terminals, results of the analysis of the aggregation of results of the repetitions.
- 11. A method of using a distributed network, the network providing electronic data communication with variable time delays to remote terminals; the method comprising:

providing a web site accessible to the remote terminals;

logging in a first one of the remote terminals to the web site to initiate a playing session;

setting a global start time for the playing session; logging into the playing session at least one other of the remote terminals;

transmitting synchronizing pulses to each logged-in terminal;

transmitting an audiovisual clip to each of the logged-in terminals;

transmitting a question pertaining to the audiovisual clip to each of the logged-in terminals; receiving answers transmitted to the web site from the logged-in terminals; and

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transmitting, to the logged-in terminals, an indication of those terminals at which a correct answer was most rapidly provided.

12. A method of using a distributed network, the network providing electronic data communication with variable time delays to remote terminals; the method comprising:

providing a web site accessible via the distributed network to the remote terminals;

selecting a group of remote terminals for a playing session:

transmitting via the distributed network, from the web site to each of the terminals selected for the playing session, an audiovisual clip, a question relating to the audiovisual clip, and a synchronizing signal so that the audiovisual clip and the question are each displayed at each of the terminals selected for the playing session at synchronized times;

receiving, from at least one of the remote terminals selected for the playing session, answers to the question relating to the audiovisual clip and, in conjunction therewith, indications of elapsed time, relative to the synchronized time, at which answers were entered into the remote terminals;

analyzing the received answers and their associated indications of elapsed time in accordance with correctness and timeliness criteria; and

transmitting an indication of the correctness and timeliness of selected ones of the received answers to the terminals selected for the playing session.

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13. A method of using a distributed network, the network providing data communication with variable time delays to remote terminals; the method comprising:

establishing a consistent synchronized time base at a plurality of remote terminals, the plurality of remote terminals thereby constituting a session;

distributing, via the distributed network to the remote terminals in the session, an audiovisual clip and a question related to the audiovisual clip that is displayed on the terminals in the session in accordance with the synchronized time base;

receiving, via the distributed network from the terminals in the session, a set of responses to the question and corresponding indications of elapsed time for response entry relative to the synchronized time base;

analyzing a set of responses and corresponding indications of elapsed time in accordance with preselected criteria including timeliness criteria; and distributing, via the distributed network, results of the analyzing step.

- 14. The method of claim 13, wherein the distributing of an audiovisual clip comprises distributing a video recording of a refereed sporting event.
- 15. The method of claim 14, wherein the distributing of an audiovisual clip comprises distributing a video recording of a play in a refereed sporting event up to, but not including, a call of a referee.
- 16. The method of claim 15, wherein the distributing of a question relating to the audiovisual clip comprises the

distributing of a question relating to a call of the play in the video recording.

- 17. The method of claim 16, wherein the receiving step comprises receiving one answer and a corresponding indication of elapsed time from each of a plurality of terminals in the session, and the analyzing step comprises ranking of correct answers received in order of elapsed time.
- 18. A method of playing a computer game, comprising: asking a plurality of players a question; receiving answers to the question from the plurality of players; and
- scoring each of the players in accordance with criteria relating to both speed and correctness of the received answers.
 - 19. The method of claim 18, further comprising the step of presenting an audiovisual clip representing a play of a sporting event to the plurality of players, wherein the asking step includes asking a question relating to the play represented in the clip.
 - 20. The method of claim 19, wherein all of the steps are performed by a single, stand-alone device selected from the group consisting of computers and video games.
 - 21. The method of claim 19, wherein all of the steps are performed by a server computer or a computer network.

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- 22. The method of claim 19, wherein the presenting step comprises presenting a recording of a portion of a live sporting event.
- 23. The method of claim 19, wherein the presenting step comprises presenting an animation representing a play of a sporting event.

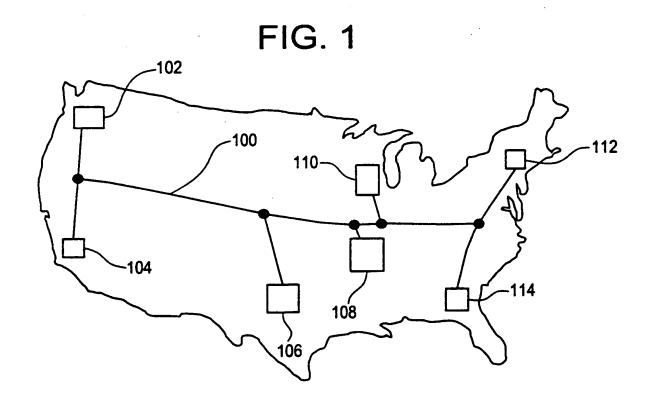


FIG. 2

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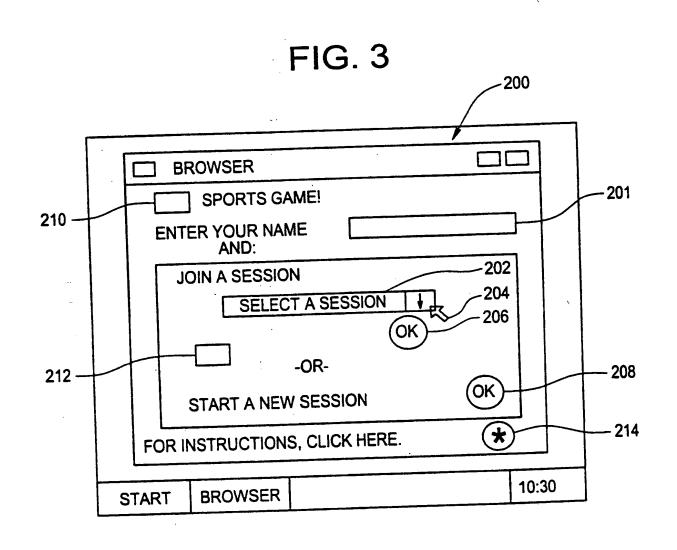


FIG. 4

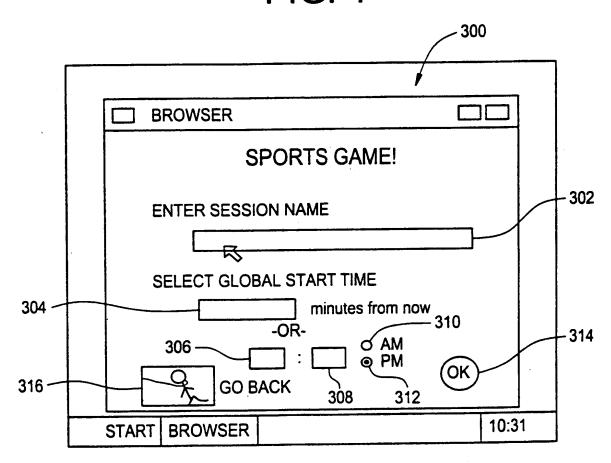


FIG. 5

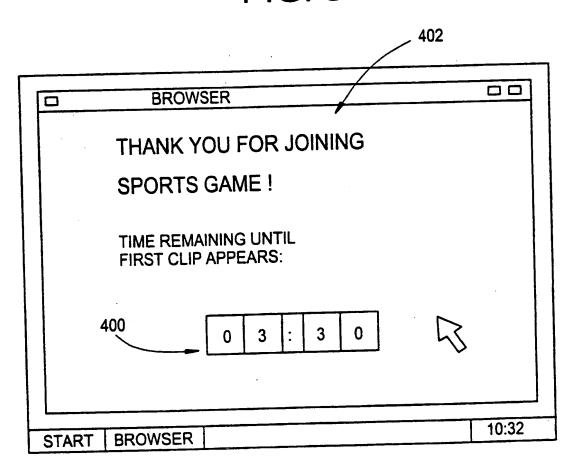


FIG. 6

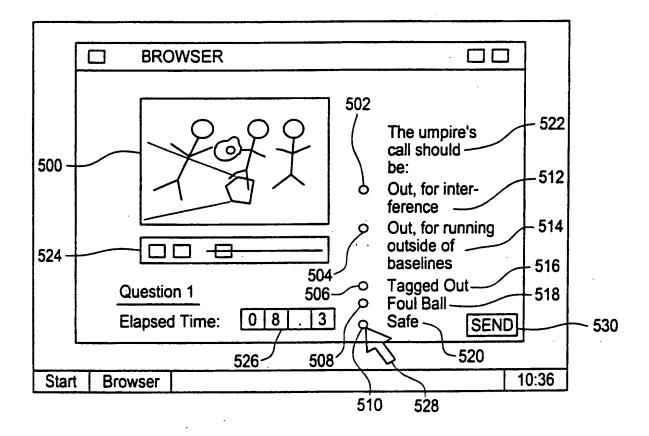
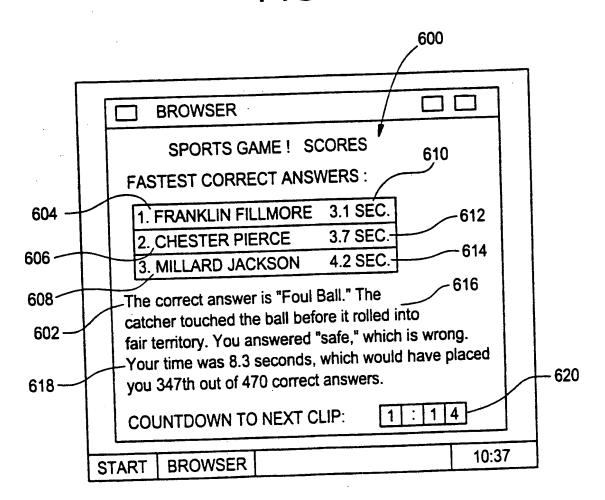


FIG. 7



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FIG. 8

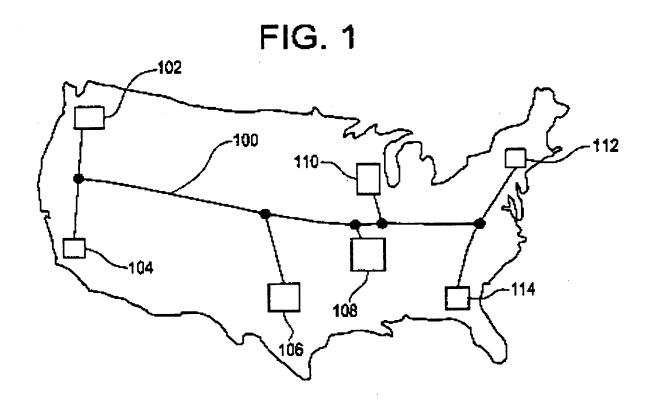
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BROWSER				
THANKS FOR PLAYING SPORTS GAME!				
BEST SCORES FOR 10 CLIPS:				
1. DWIGHT NIXON	31.8			
2. GERALD CARTER	39,7			
3. CHESTER PIERCE	48.3			
Score is total number of sanswers; incorrect answers questions count 10.0 sections count 10.0 sections core: 84.6 Rank: 7	ers or unanswered conds.	ayers		
START BROWSER		10:48		

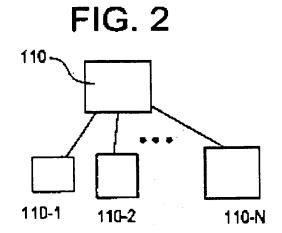
INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/17465

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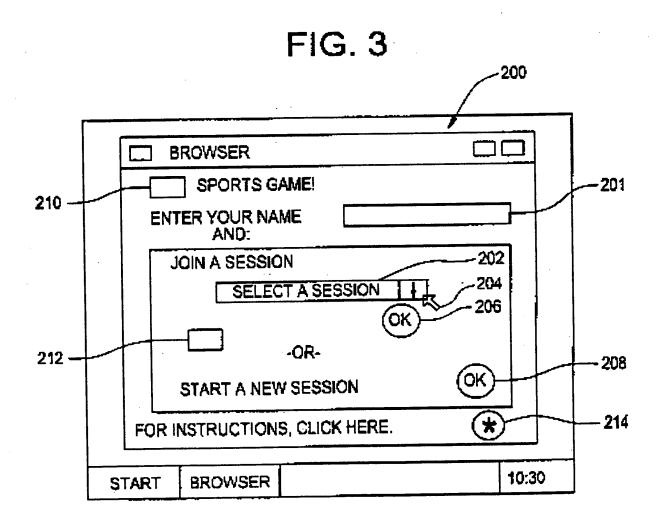


FIG. 4 300 **BROWSER** SPORTS GAME! - 302 ENTER SESSION NAME SELECT GLOBAL START TIME minutes from now 310 304 --OR-314 o AM 306 OK 316 **GO BACK** 308 312 10:31 START **BROWSER**

FIG. 5

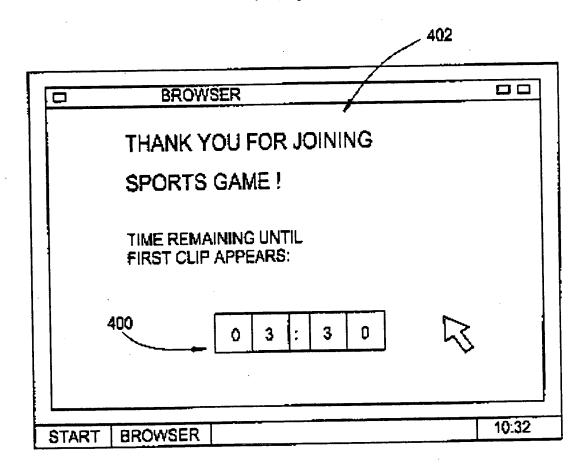


FIG. 6

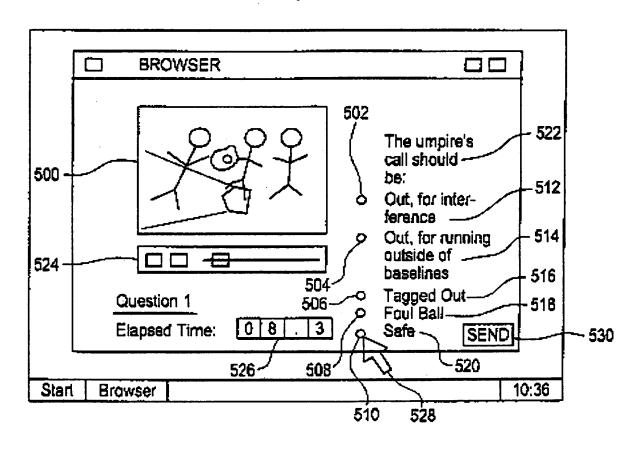
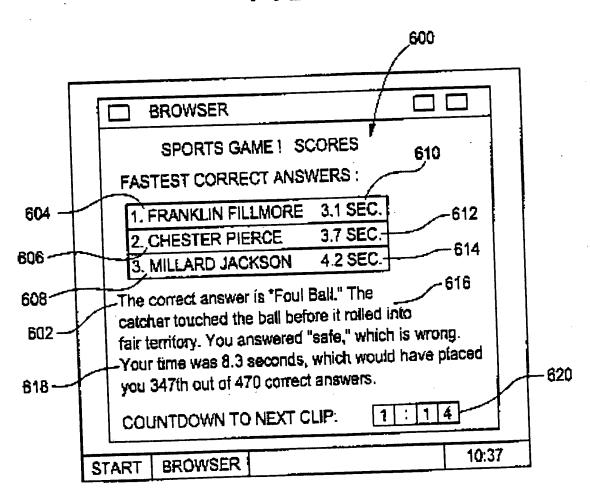


FIG. 7



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FIG. 8

	700				
BROWSER					
THANKS FOR PLAYING SPORTS GAME!					
BEST SCORES FOR 10	CLIPS:				
1. DWIGHT NIXON	31.8				
2. GERALD CARTER	39.7				
3. CHESTER PIERCE	48.3				
Scora is total number of seconds to correct answers; incorrect answers or unanswered questions count 10.0 seconds. Your score: 84.6 Rank: 790th out of 2,150 players					
START BROWSER		10:48			

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